

ABSTRACT

The invention relates to thermostable phosphatases and to polynucleotides encoding the thermostable phosphatases. In addition methods of designing new phosphatases and methods of use thereof are also provided. The thermostable phosphatases have increased activity and stability at increased pH and temperature.

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| Time | Lat | Long | Alt | Temp | Hum | Wind | Dir | Speed | Pressure | Clouds | Visibility | Remarks |
|------|-----------|------------|------|------|-----|------|-----|-------|----------|--------|------------|---------|
| 0000 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0100 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0200 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0300 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0400 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0500 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0600 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0700 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0800 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 0900 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1000 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1100 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1200 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1300 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1400 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1500 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1600 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1700 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1800 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 1900 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 2000 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 2100 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 2200 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |
| 2300 | 33° 00' N | 118° 00' W | 1000 | 55.0 | 85 | 10 | 090 | 10 | 1013.2 | 0 | 10 | Clear |